



VIENTO-10

TEN-MICRON LWIR WITH USB OR GIGE CONNECTIVITY



With industry-standard interface options, Viento-10 is an easy-to-integrate, VGA resolution LWIR camera core that delivers best-in-class sensitivity, detail and clarity.

DETAILS

Viento-10 is built around an industry-leading 10-micron pixel pitch camera core by Leonardo DRS. With custom-developed interface boards providing fully integrated USB 3.0 or GigE Vision® connectivity, Viento-10 delivers universal, out-of-the-box functionality for end-users, OEMs and integrators.

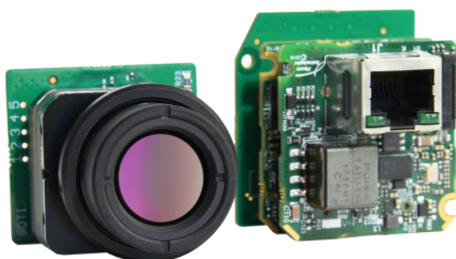
A 60 Hz frame rate, a growing suite of lens options and IP67 capability make this a versatile, high-performance camera core for a wide range of thermal imaging applications.

- + 25+ Years industry leadership
- + Responsive customer service
- + Quality assured
- + Direct engineering support
- + Items in stock, ready to ship
- + ISO 9001:2015 company

APPLICATIONS

- + Unmanned vehicles
- + Security & surveillance
- + Fire detection
- + Traffic monitoring
- + Law enforcement
- + Machine vision
- + Precision agriculture
- + OEM integration
- + Search and rescue
- + Medical imaging

- + 10 μ 640x512 uncooled VOx microbolometer
- + Variety of lens options available
- + Sensitivity <30 mK NETD with 3-D noise filter
- + 60 Hz frame rate (9 Hz option available)
- + Smaller, lighter, more affordable optics



Viento-10 GigE



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EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR



Detector Type	Uncooled VOx Microbolometer
Array Format	640 x 512
Pixel Pitch	10 Micron
Spectral Response	LWIR
Frame Rate	60 Hz 9 Hz available
Bit Depth	14-bit
NETD	<60 mK

ENVIRONMENTAL



Operating Temperature	0°C to +70°C
Input Voltage	Powered via USB
Power Dissipation	2.0 W

LENS MODELS



	FOV	F#
No Lens	N/A	N/A
4.3 mm	90° x 72°	1.2
5.5 mm	70° x 56°	1.2
7.7 mm	49° x 40°	1.3
15 mm	25° x 20°	1.2
20 mm	18° x 15°	1.2
30 mm	12° x 10°	1.3
35 mm	10° x 8°	1.2
55 mm	6.4° x 5.1°	1.0
73 mm	5.0° x 4.0°	1.05

SYSTEM



Digital Video Output	USB3.0 UVC
NUC	1-point w/ shutter or through lens
Image Enhancement	Linear Histogram AGC, CLAHE, LAP, Sharpen, De-noise, Electronic image, stabilization
Color Palette Options	24-bit RGB and YUV (4,2,2) Superframe
Digital Zoom/Pan	1x to 4x
Symbology	User defined
Onboard Storage	32 GB standard, expandable to 512 GB
Camera Control/Command Interfaces/System Control	USB3.0 UVC 14-bit/8-bit LVCMOS or Camera Link® available

